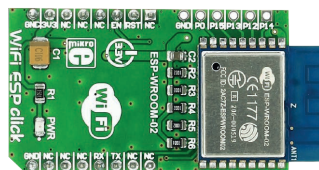


Product brief

XMC4800 IoT Amazon FreeRTOS connectivity kit WiFi

Explore XMC4800 microcontroller based on ARM® Cortex®-M4 in the IoT cloud

The XMC4800 IoT Amazon FreeRTOS connectivity kit with EtherCAT® utilizes Infineon's industry leading XMC ARM® Cortex®-M4 microcontroller in combination with WiFi Click-Board module from Mikroelectronica. The XMC4800 IoT Amazon FreeRTOS connectivity kit with EtherCAT® is designed to evaluate the capabilities of the XMC4800 microcontroller especially in IoT cloud application solutions, adding the EtherCAT® slave features and can be used with a wide range of development tools including Infineon's free of charge Eclipse based IDE, DAVE™, Amazon FreeRTOS and much more.



Key features

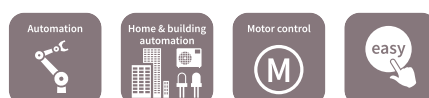
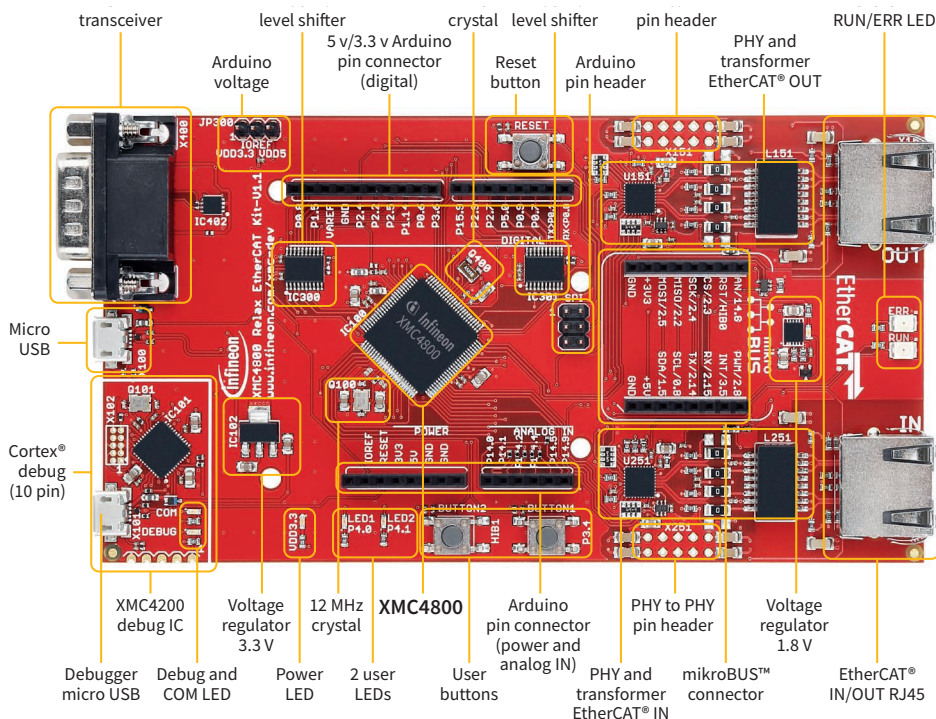
- › XMC4800-F100 MCU based on ARM® Cortex®-M4 at 144 MHz
- › EtherCAT® slave controller, 2 MB flash and 352 KB RAM
- › Mikroelectronica WiFi Click module included
- › EtherCAT® slave node (2 EtherCAT® PHY and RJ45 Jacks)
- › 24 V ISOFACE™ 8-ch inputs and 8-ch outputs CAN transceiver
- › CAN transceiver

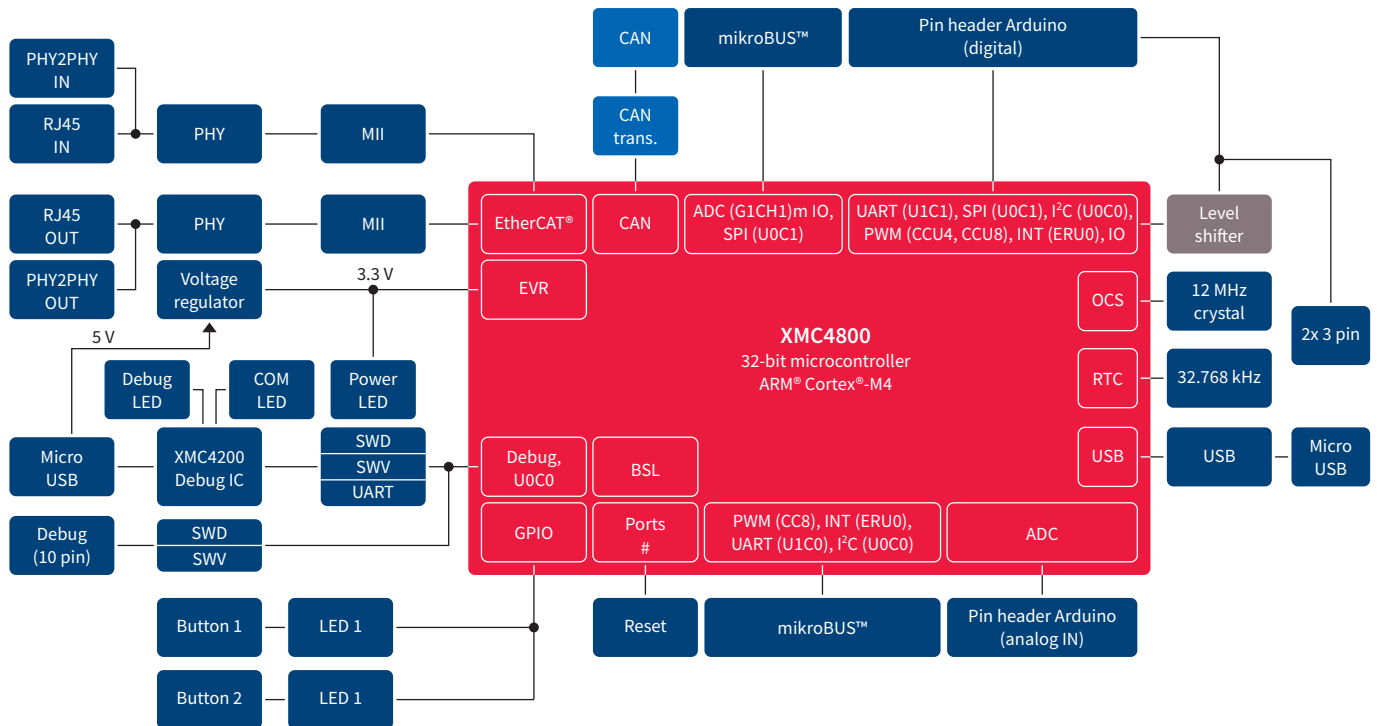
Key benefits

- › Full software support of AWS Amazon FreeRTOS
- › Combined MCU with EtherCAT® slave application
- › Arduino compatibility
- › SEGGER debugger
- › mikroBUS™ ClickBoard interface
- › CAN connectivity
- › Full software DAVE™ examples

Key benefits

- › Cloud connected IoT devices
- › Building and automation
- › Industrial
- › Micro PLC
- › Motor control and drives





The block diagram shows the main components of the XMC4800 IoT Amazon FreeRTOS connectivity kit WiFi and their interconnections.

The main building blocks are:

- > XM4800 microcontroller in a LQFP-100 pin package
 - > 2 EtherCAT® PHY with 2 RJ45 plugs
 - > 1 mikroBUS™ connector
 - > Arduino connector
 - > CAN transceiver with SUB 9 connector
- (ClickBoard Mikroelektronika for WiFi connectivity)

Product table

Type	Description	Ordering code
KIT_XMC48_IOT_AWS_WIFI	The XMC4800 IoT Amazon FreeRTOS connectivity kit with EtherCAT® utilizes Infineon's industry leading XMC ARM® Cortex®-M4 microcontroller in combination with Amazon FreeRTOS and Mikroelektronika ClickBoard for WiFi connectivity	KITXMC48IOTAWSWIFITOBO1
XMC4800-F100K2048	ARM® Cortex®-M4 microcontroller / LQFP-100 package / 2 MB flash / 352 KB RAM	XMC4800F100K2048AAXQMA1
IFX1117MEV33 SOT223	Infineon voltage regulator 3.3 V	IFX1117MEV33HTMA1
IFX54441LDV TSON-10	Infineon voltage regulator adj.	IFX54441LDVXUMA1
IFX1051LE TSON-8	Infineon CAN transceiver	IFX1051LEXUMA1

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